



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors:

Takayuki MURAKAMI, et al.

Application No.:

10/542,653

Filed:

July 19, 2005

For:

RECEPTION APPARATUS AND RECEPTION METHOD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449. All of these references were cited in an Japanese Office Action dated November 15, 2005 (copy attached). JP '097 corresponds to US '599. JP '957 is already of record (IDS filed July 19, 2005).

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and

appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Date: February 15, 2006

Registration No. 28,732

Registration No. 28,73

JEL/ejw

ATTORNEY DOCKET NO. <u>L9289.05156</u>
STEVENS, DAVIS, MILLER & MOSHER, L.L.P.
1615 L STREET, NW, Suite 850
WASHINGTON, DC 20043-4387
Telephone: (202) 785-0100

Facsimile: (202) 408-5200

LESSO, 05156 10/542,653 APPLICANT TAKAYUKI MURAKAMI, et al. FILING DATE JULY 19, 2005 GROUP Unassigned U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS BURGARS FEMILIARIES NO. N.B./ 2001 1 1 1 4 5 5 0 04/2001 JP Partial N.B./ 1 1 5 0 2 0 9 7 02/1999 JP Abstract OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) N.B./ Japanese Office Action dated November 15, 2005 with English translation. N.B./ M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Communications, vol. 19, no. 8, pages 1461-1475, AUG 2001 T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous COMA Michile Communications Channels," IEEE Transactions on Vehicular Synchronous COMA Michile Communications Channels, "IEEE Transactions on Vehicular Pages, IEEE Transactions on Vehicular Synchronous COMA Michile Communications Channels," IEEE Transactions on Vehicular Synchronous COMA Michile Communications Channels, "IEEE Transactions on Vehicular Pages, IEEE Tran	FORM-PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office PE (Application of Commerce PE (Rev. 4/92) Patent and Trademark Office PE (Application of Commerce PE (Application o										ATTY. DOCKET	SERIA	SERIAL NO.				
(Use several sheets if necessary FB Partial Takayuki MURAKAMi, et al. FILING DATE SUBCLASS											L9289.05156 10/542,653						
THE DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FAMISPAILTE	•	STA (U	se sev	veral s	sheets	APPL if nece:	ssary)	:68 1	P 5000	<u> </u>	Takayuki MURAKAMI, et al.						
S					· · · · <u>-</u>	·· ·				FILING DATE July 1	GROU	GROUP Unassigned					
							. <u> </u>		U.S. P	ATE	NT DOCUME	NTS		,			
	EXAMINER NITIAL D		DOCUMENT NUMBER								DATE NAME CLASS SUB		SUBCLASS	IF APPROPRIATE			
/N.B./ 2001 1 1 1 4 5 5 5 04/2001 JP Partial /N.B./ 1 1 5 0 2 0 9 7 02/1999 JP Abstract OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) /N.B./ Japanese Office Action dated November 15, 2005 with English translation. /N.B./ M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461-1475, Aug. 2001. /N.B./ T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 566-515, Aug. 1993.	/١٧.١٥./		5 7 5 4 5 9						9	9	05/1998	Ling et al.					
/N.B./ 2001 1 1 1 4 5 5 5 04/2001 JP Partial /N.B./ 1 1 5 0 2 0 9 7 02/1999 JP Abstract OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) /N.B./ Japanese Office Action dated November 15, 2005 with English translation. /N.B./ M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461-1475, Aug. 2001. /N.B./ T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 566-515, Aug. 1993.																	
/N.B./ /N.B./	FOREIGN PATENT DOCUMENTS																
N.B./ 2001 1		DOCUMENT NUMBER									DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
N.B./ 1 1 5 0 2 0 9 7 02/1999 JP Abstract															YES	NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Japanese Office Action dated November 15, 2005 with English translation. M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461-1475, Aug. 2001. T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 506-515, Aug. 1995.	/N.B./	1	2001		1	1	1	4	5	5	04/2001	JP			Partial		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Japanese Office Action dated November 15, 2005 with English translation. M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461-1475, Aug. 2001. T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 506-515, Aug. 1995.	/N.B./		1	1	5	0	2	0	9	7	02/1999	JP			Abstract		
Japanese Office Action dated November 15, 2005 with English translation. M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461-1475, Aug. 2001. T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 506-515, Aug. 1995.																	
M. Vollmer, et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461-1475, Aug. 2001. T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 506-515, Aug. 1995.	/N.B./																
T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology, vol. 44, no. 3, pages 506-515, Aug. 1995.																	
	/N.B./		Radio Systems," IEEE Journal on Selected Areas in Communications, vol. 19, no. 8, pages 1461- 1475, Aug. 2001.														
	/N.B./	T. Kawahara, et al., "Joint Decorrelating Multiuser Detection and Channel Estimation in Asynchronous CDMA Mobile Communications Channels," IEEE Transactions on Vehicular Technology vol. 44, no. 3, pages 506-515, Aug. 1995															
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008		Touring y, von 44, no. 0, pages occ-oro, rag. 1000.															
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008		十															
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008																	
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008		-+										·					
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008					_					-							
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008												·					
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008									-					·			
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008		+							-								
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008		+	-														
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008									<u> </u>								
EXAMINER /Nader Bolourchi/ DATE CONSIDERED 05/01/2008					_	-											
	EXAMINE	R /	'Nad	er Bo	olour	chi/		DA	TE CO	NSI	DERED	05/01/2	2008				

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])